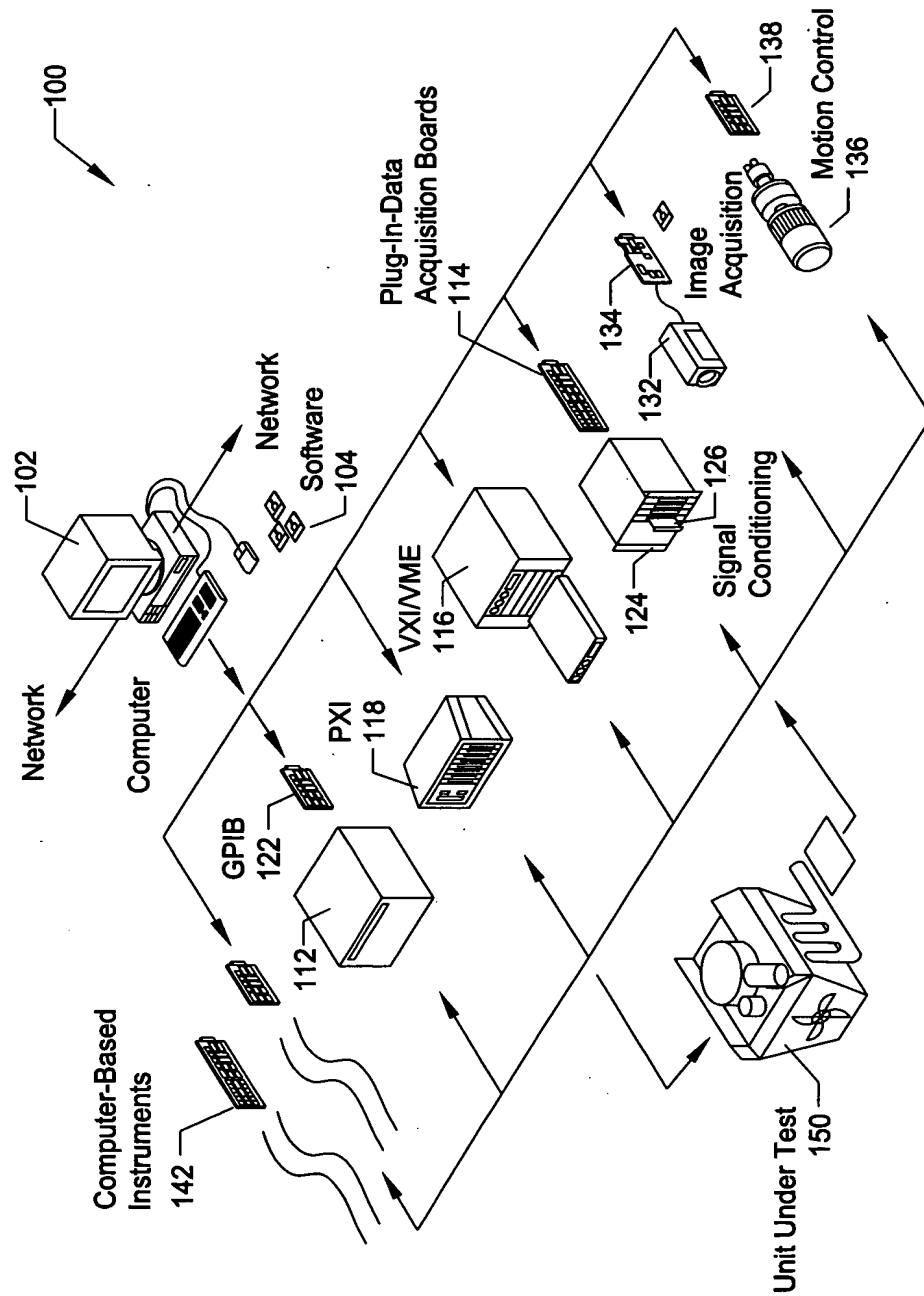


FIG. 1



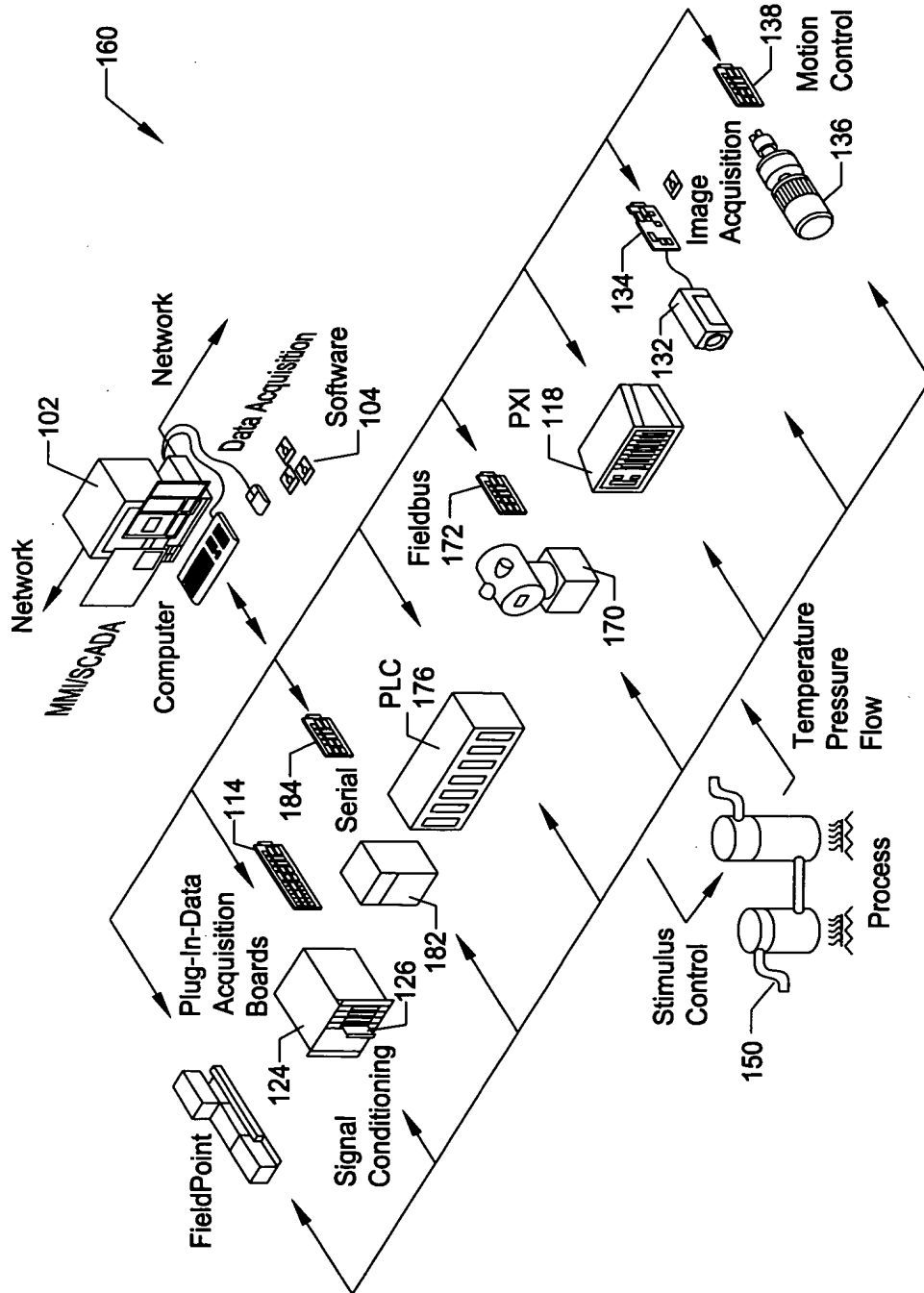


FIG. 2B



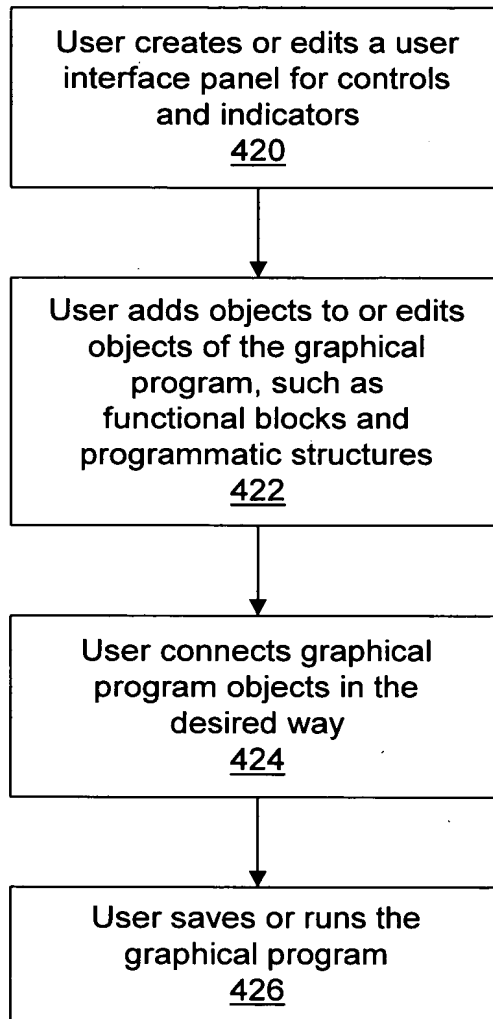


FIG. 4
(PRIOR ART)

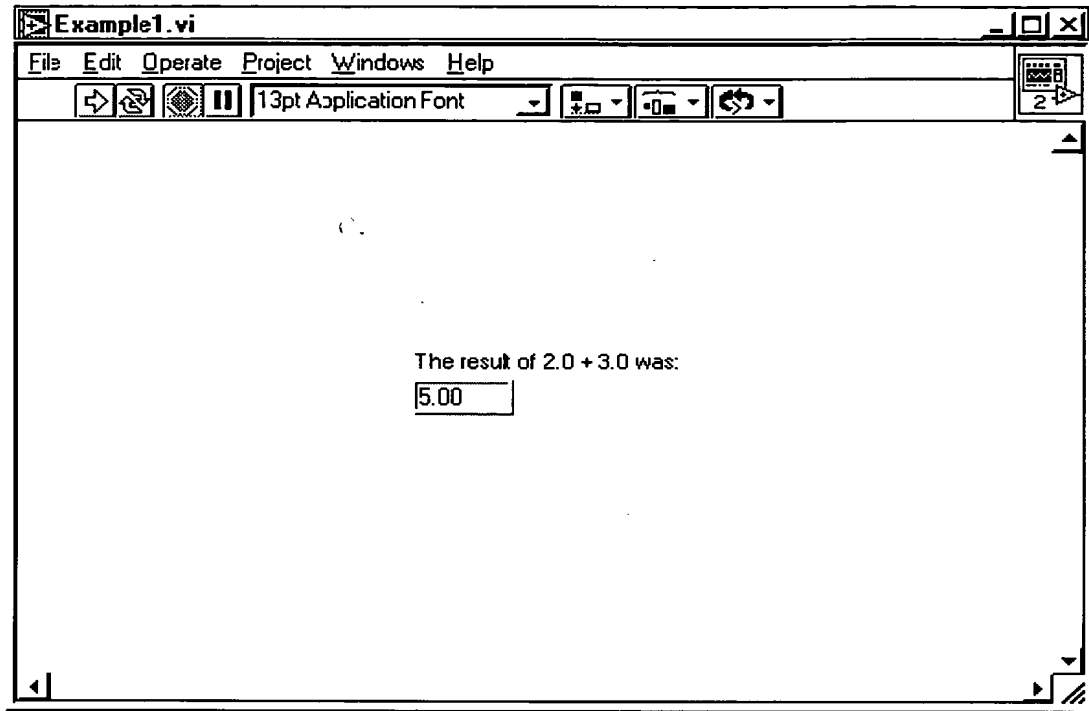


FIG. 5A
(PRIOR ART)

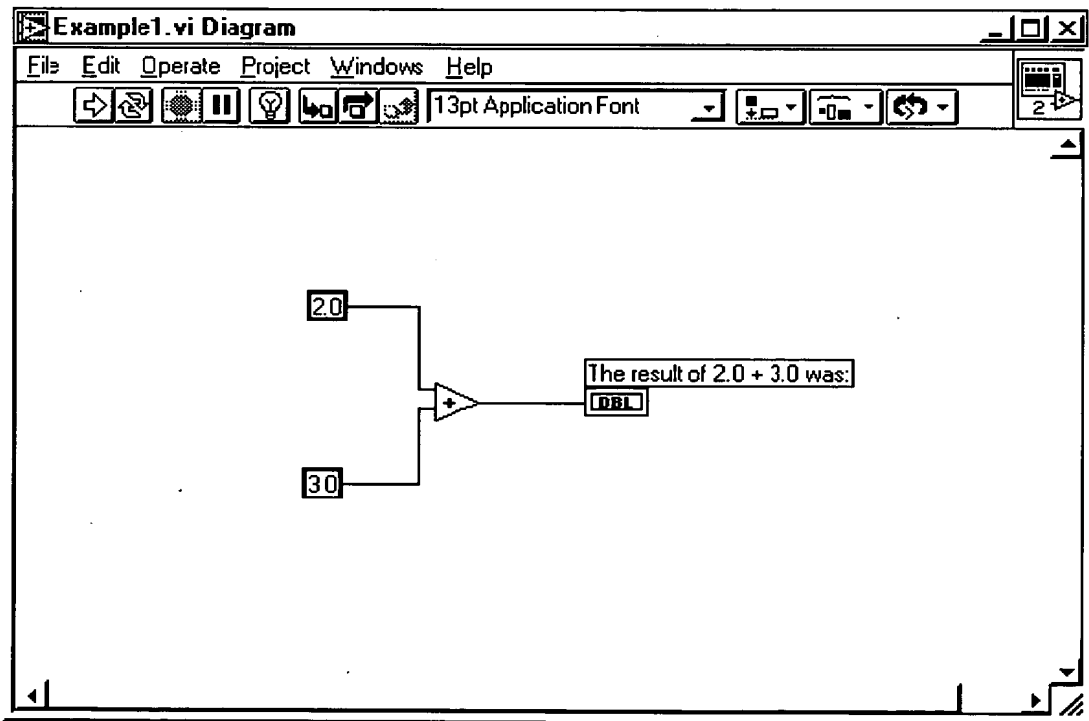


FIG. 5B
(PRIOR ART)

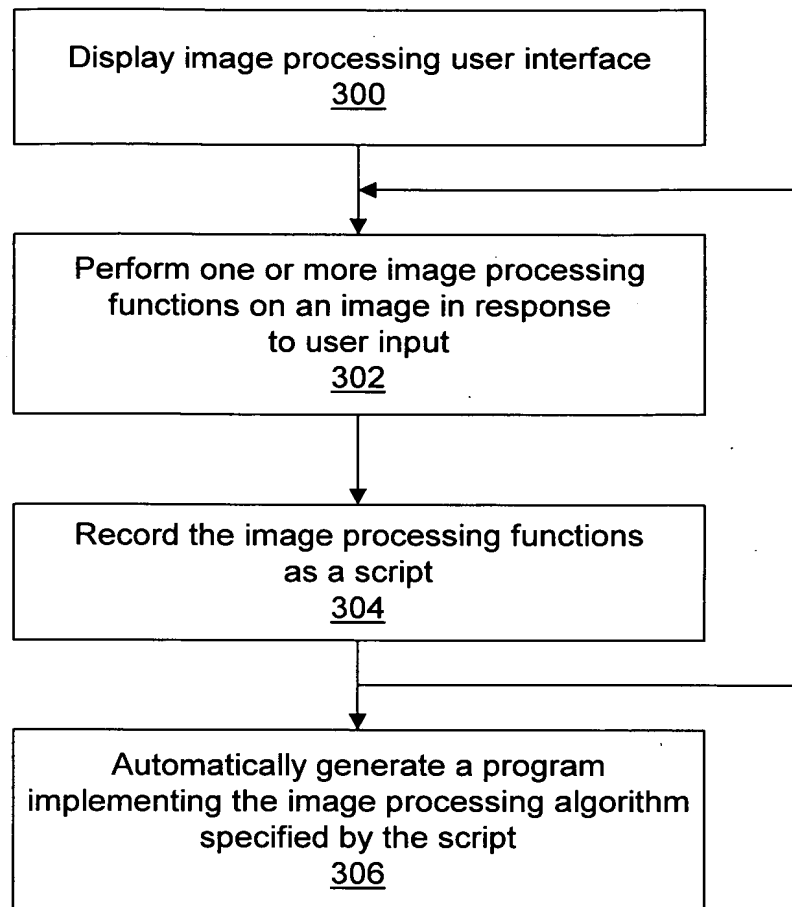


FIG. 6

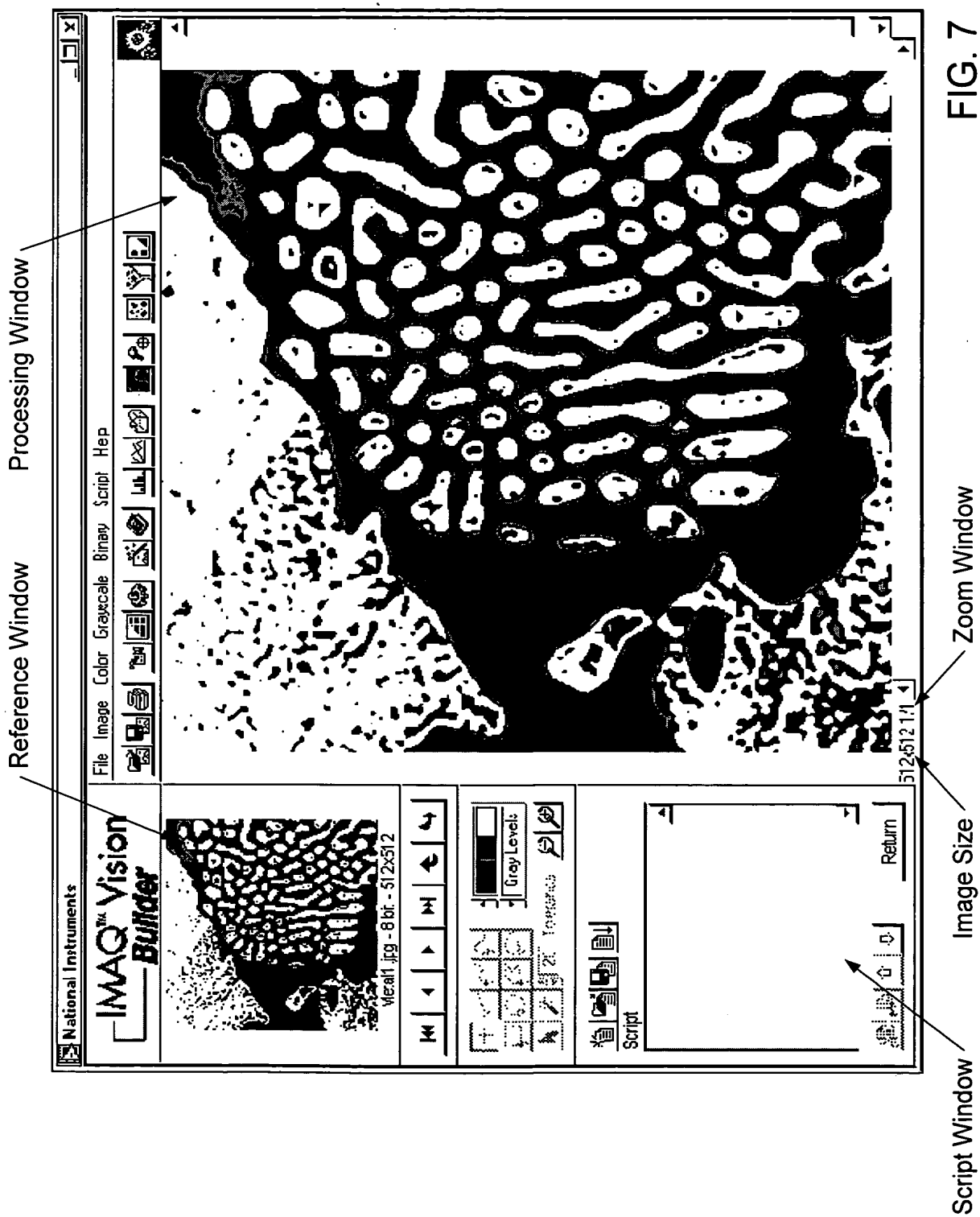


FIG. 7

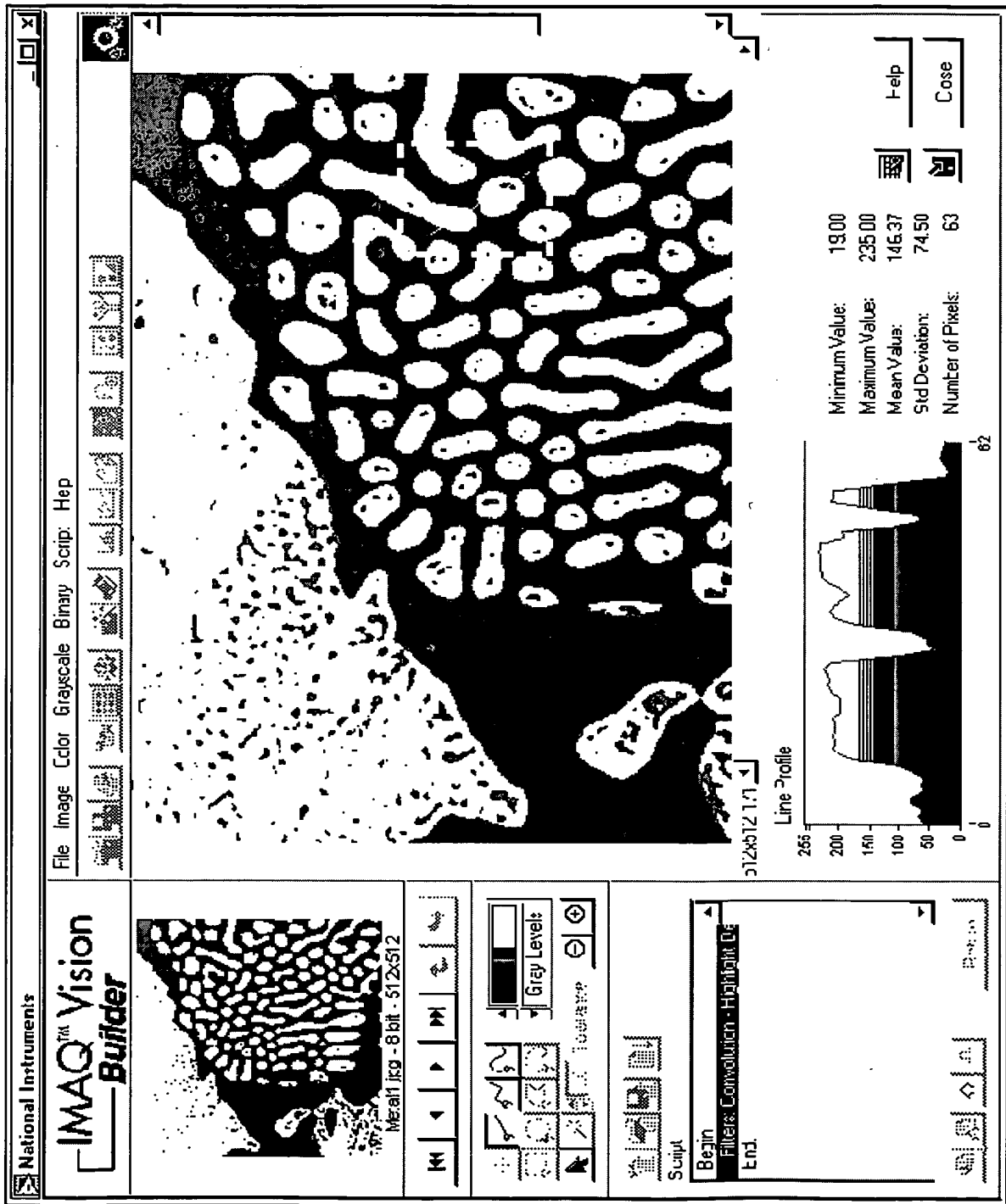


FIG. 9

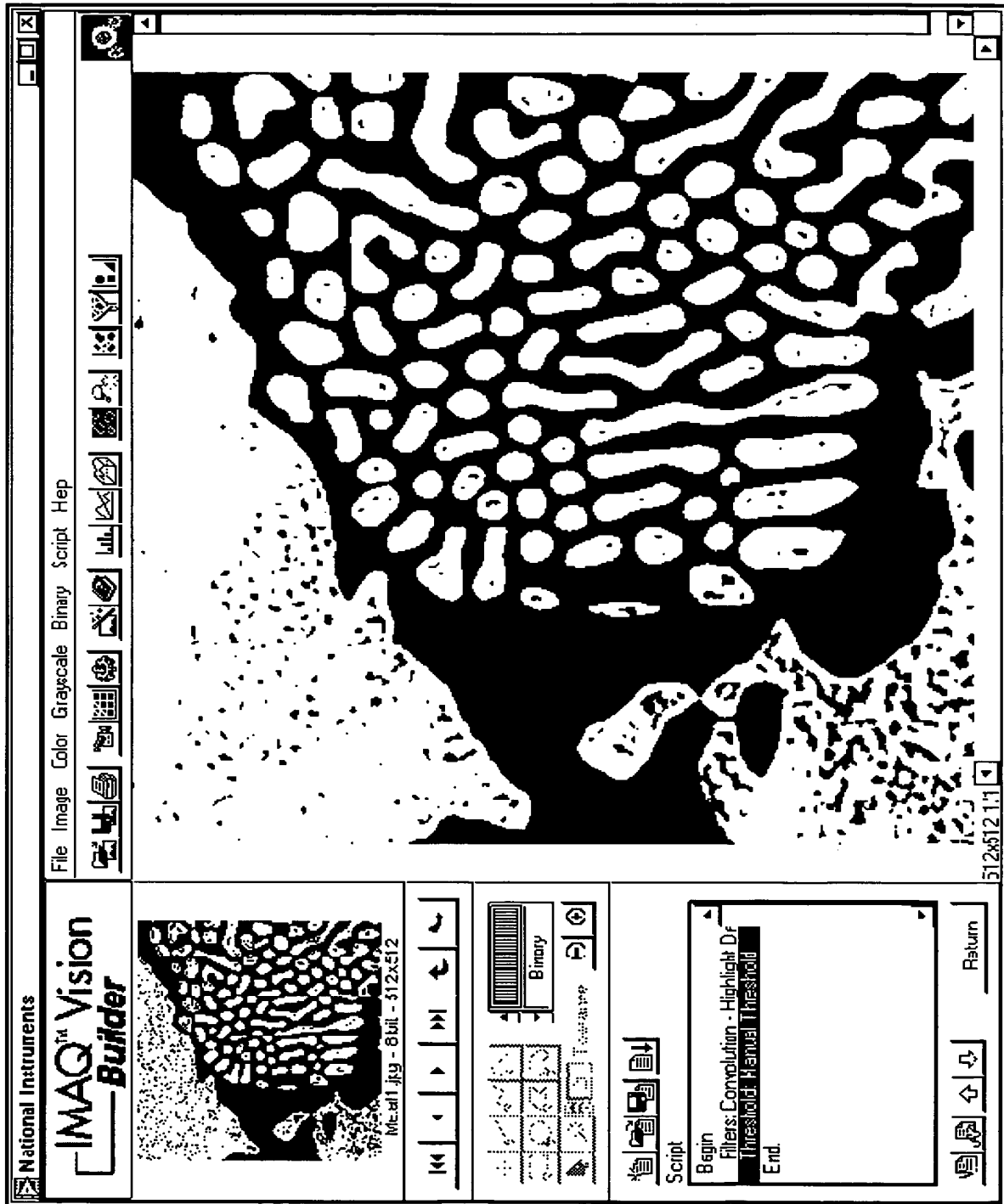


FIG. 10

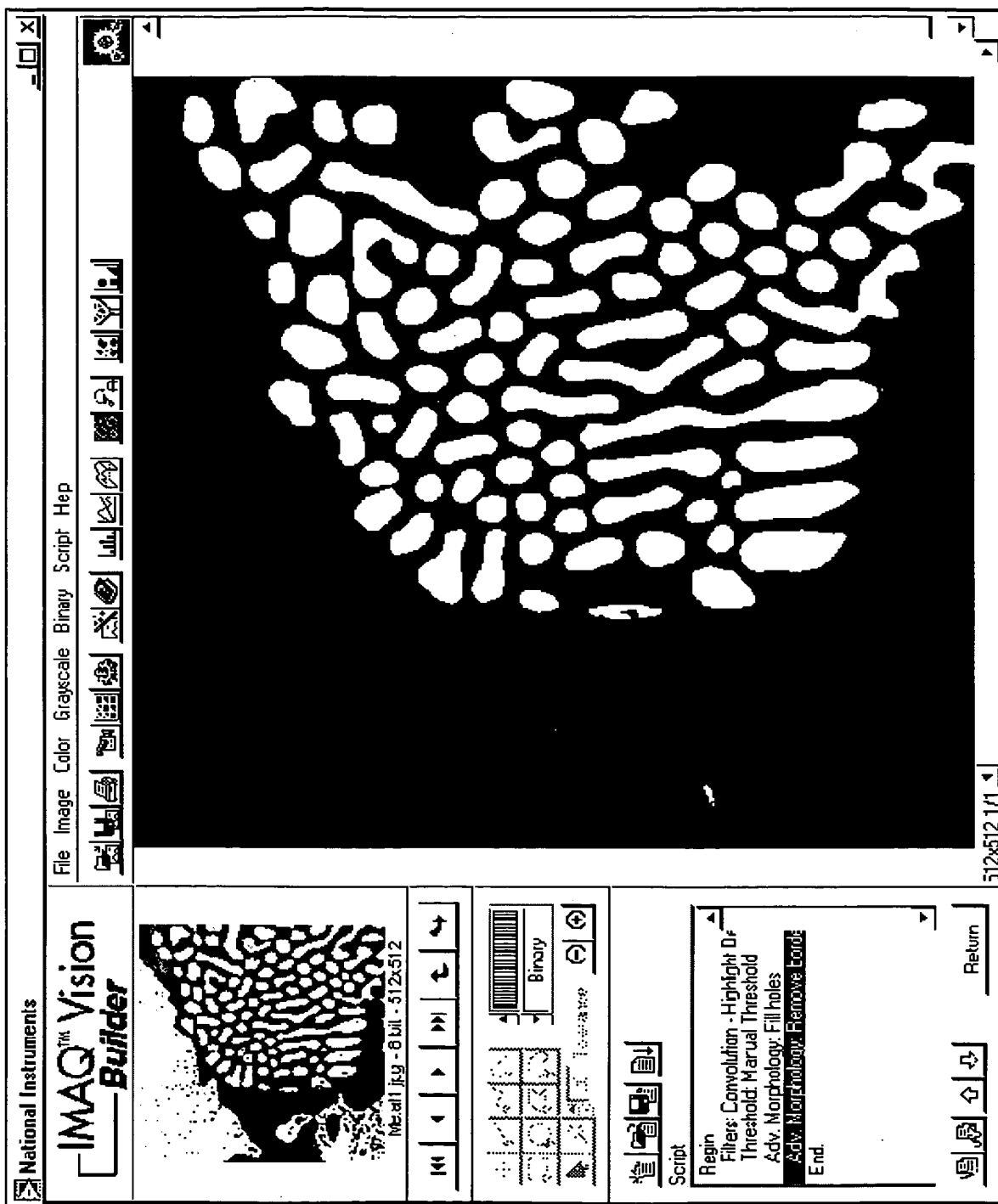
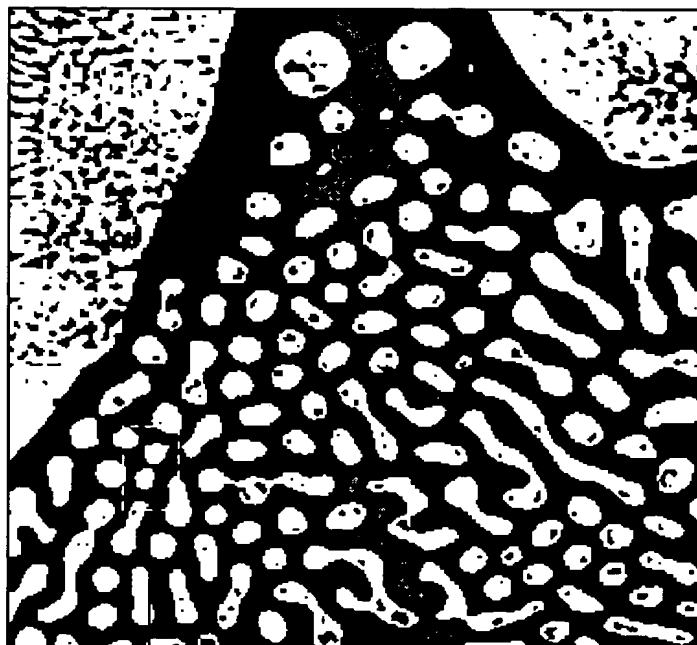


FIG. 12



Original Image (Metal3.jpg)

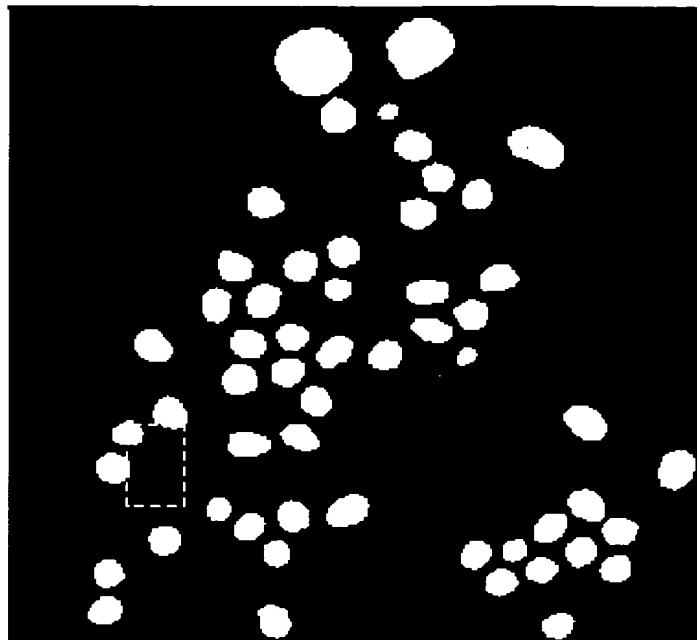


Image after Processing

FIG. 14

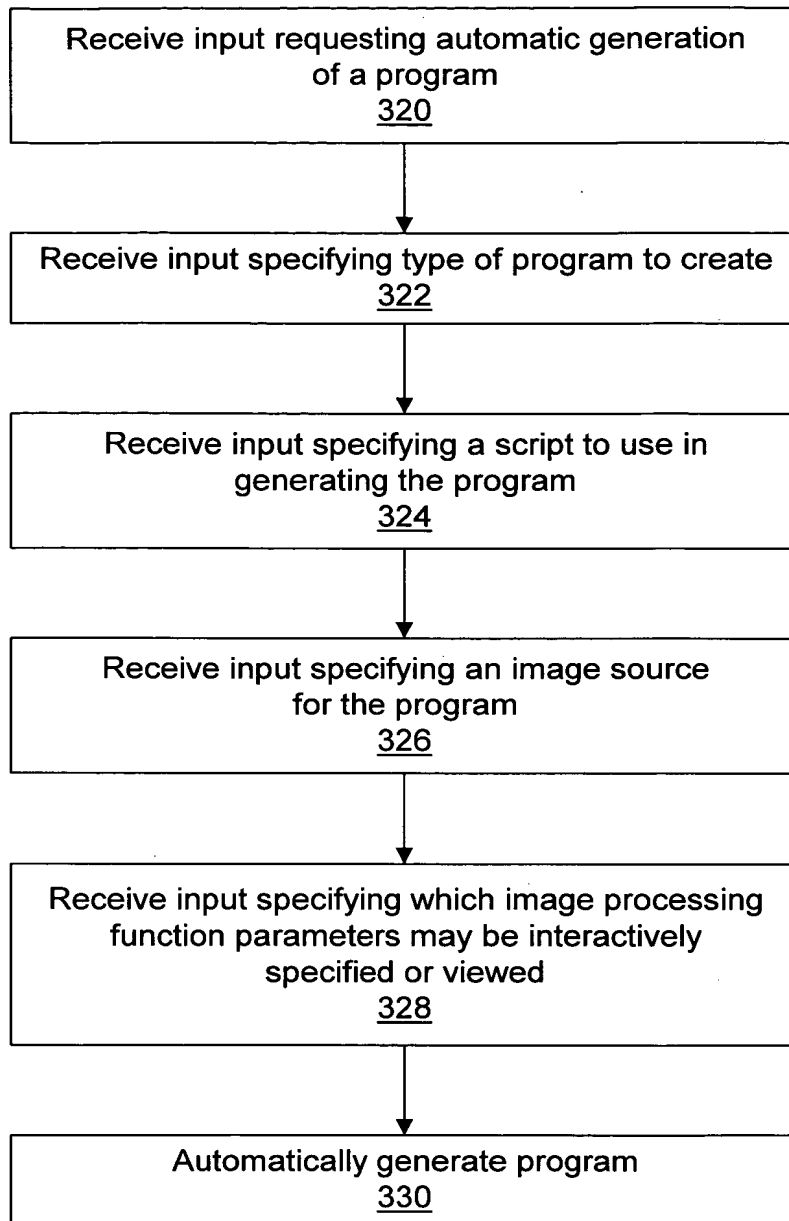


FIG. 15

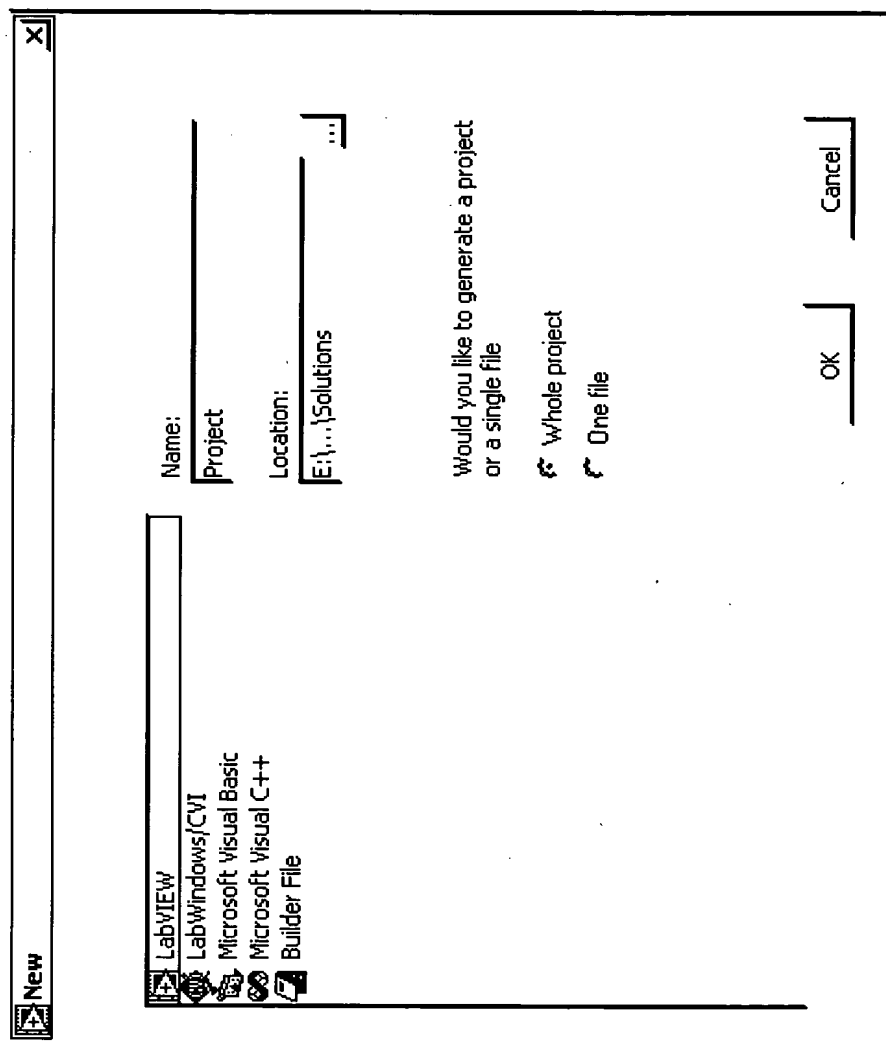


FIG. 16

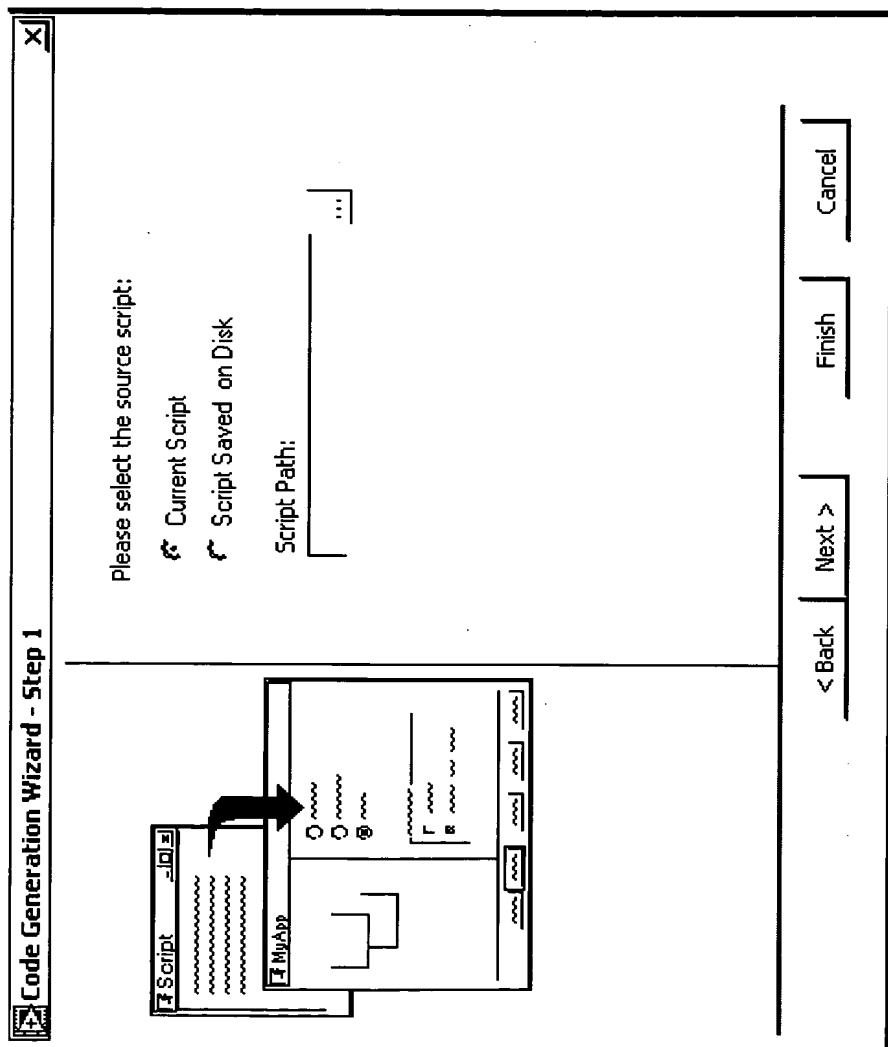


FIG. 17

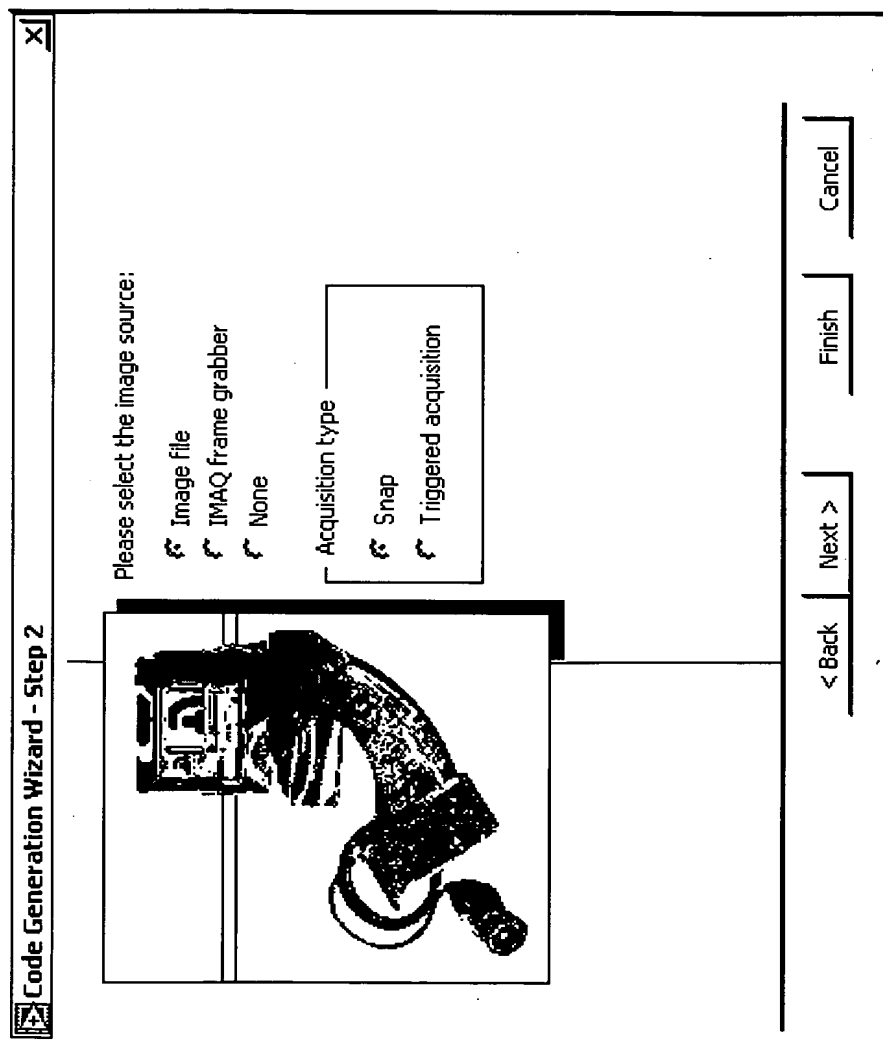


FIG. 18

Code Generation Wizard - Step 3

X

Please select which parameter you want to be editable or hardcoded

Inputs

Step 1

✓

Image Src

Kernel

Step 2

✓

Range

Step 3

Step 4

Step 5

Keep Particles

Selection Values

Ouputs

Step 5

✓

Complex Reports

✓

Number of particles

The parameters that are checked will be shown on the Front Panel for editing or viewing.

< Back

Next >

Finish

Cancel

FIG. 19

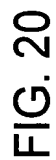


FIG. 20

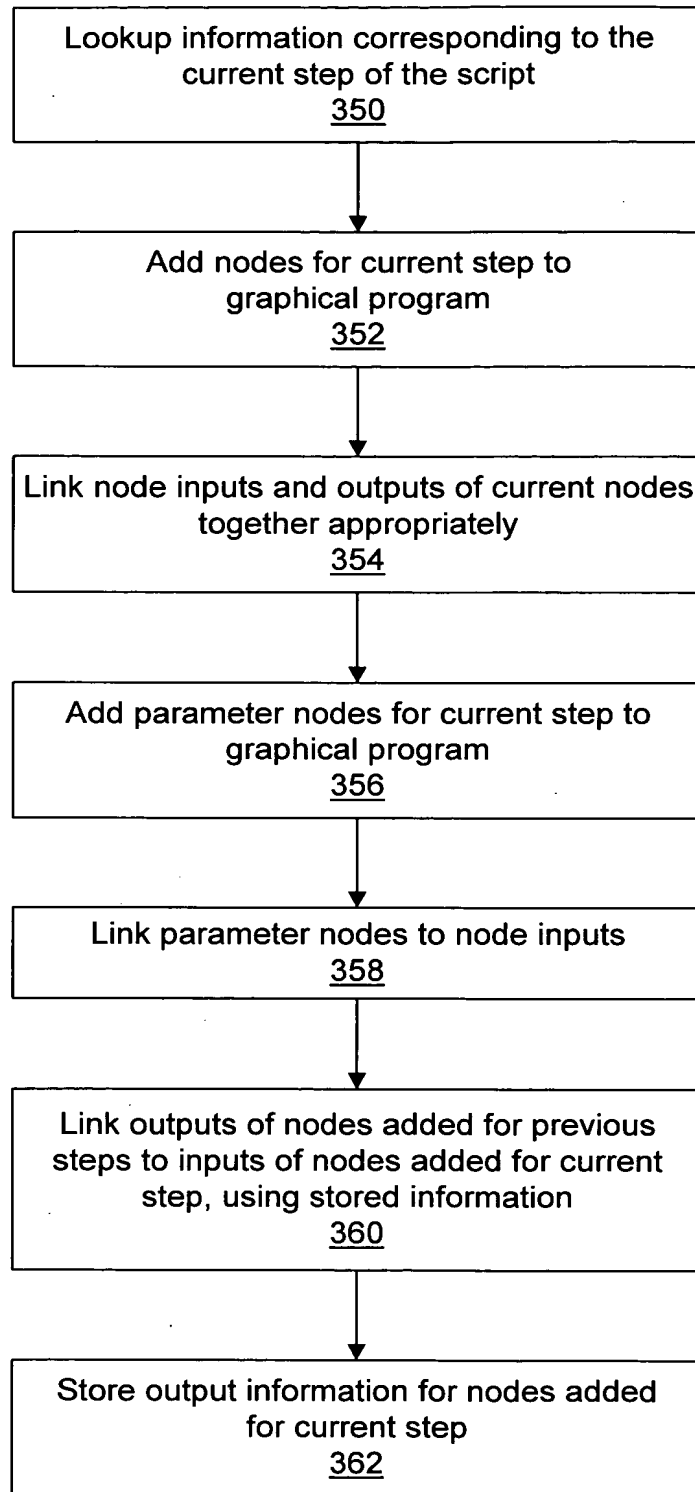
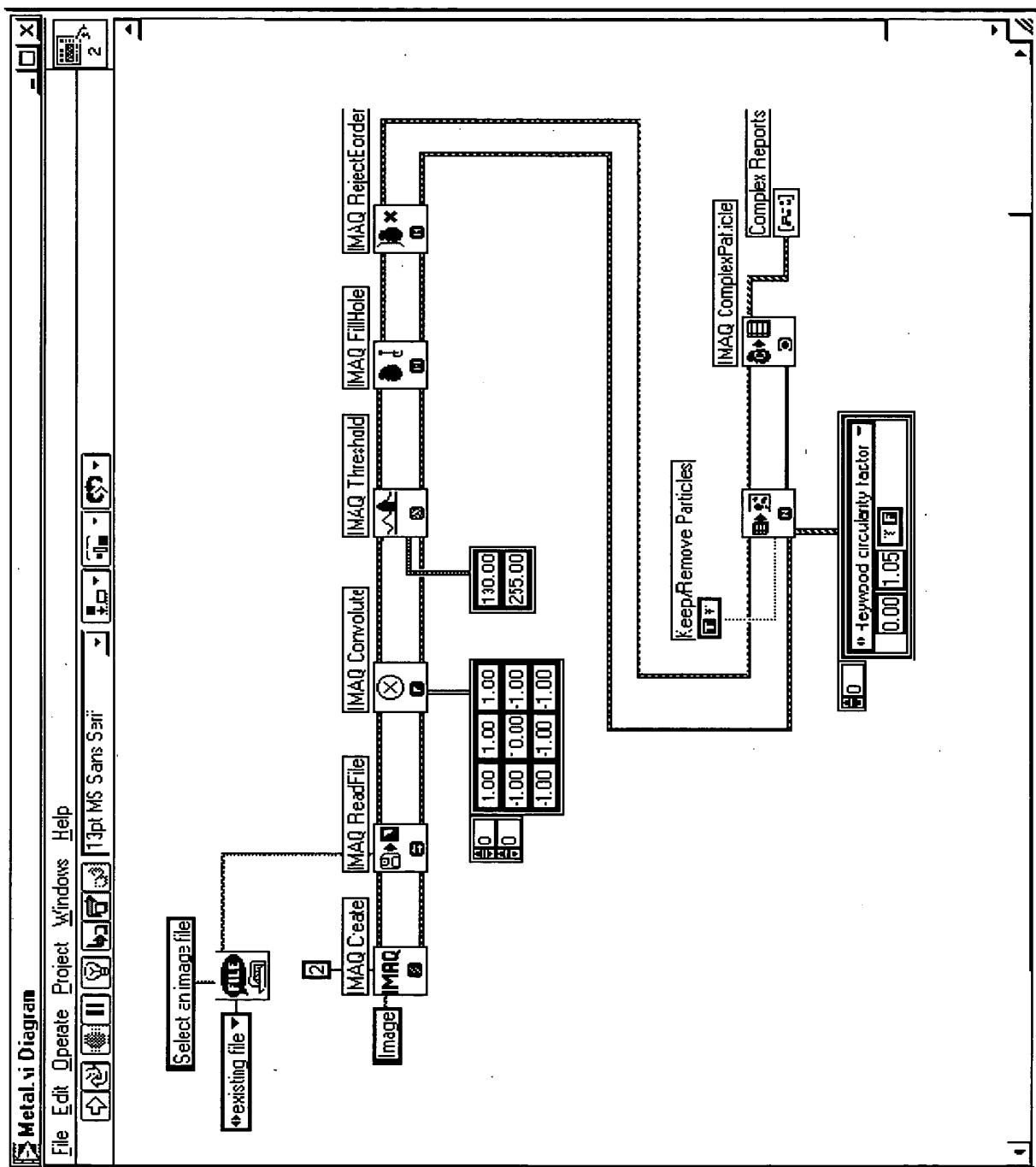


FIG. 21



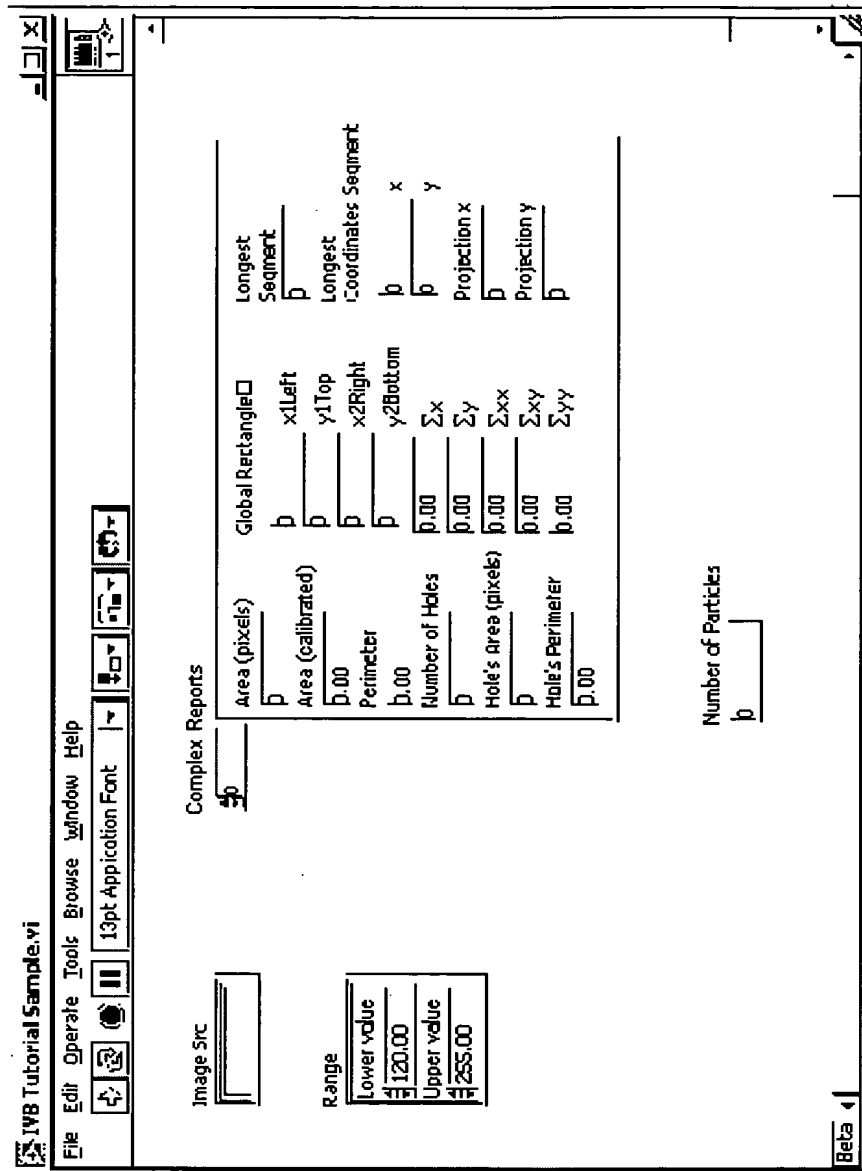


FIG. 23

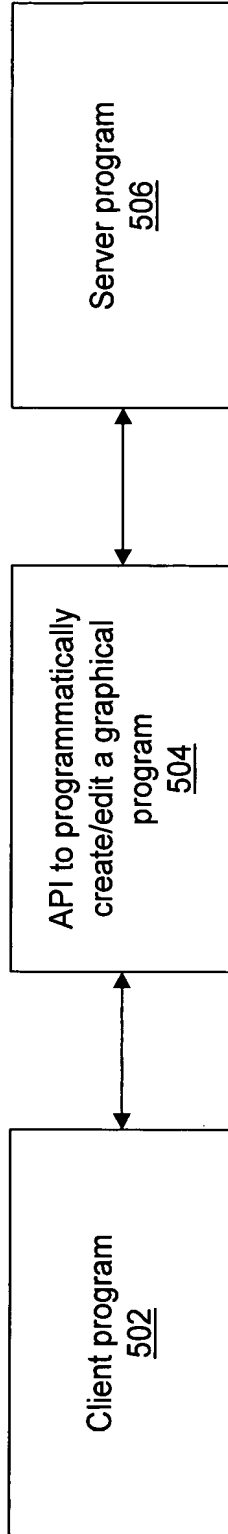


FIG. 24

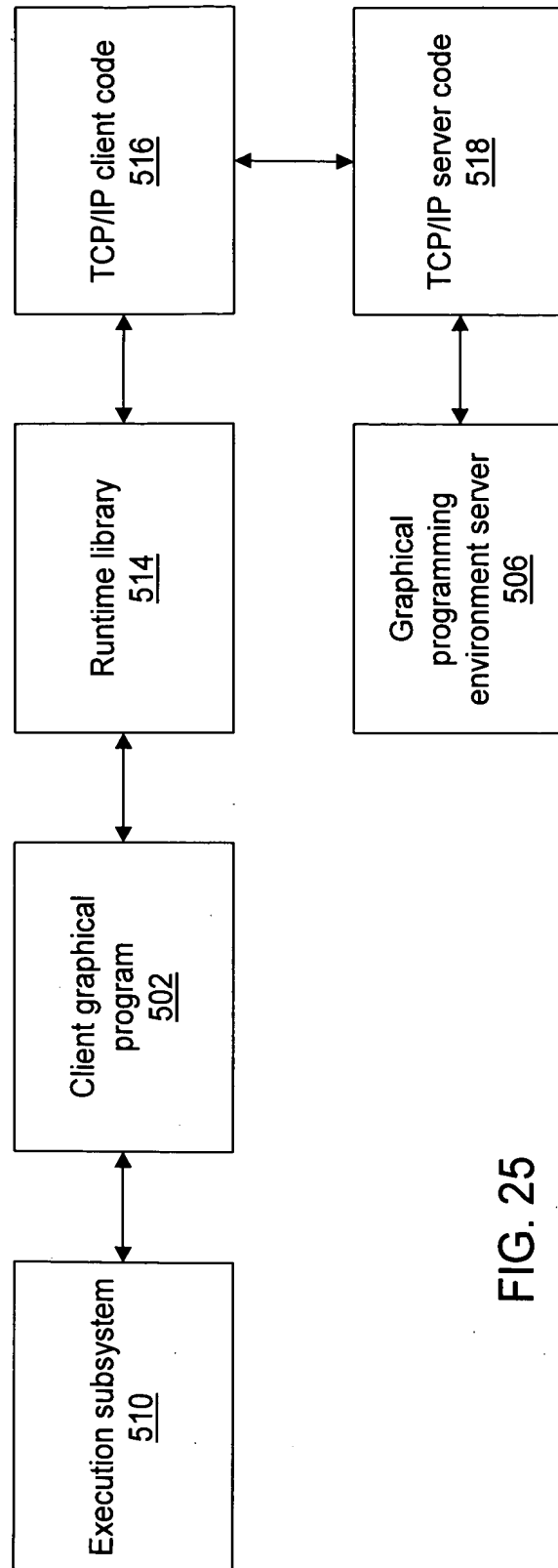


FIG. 25

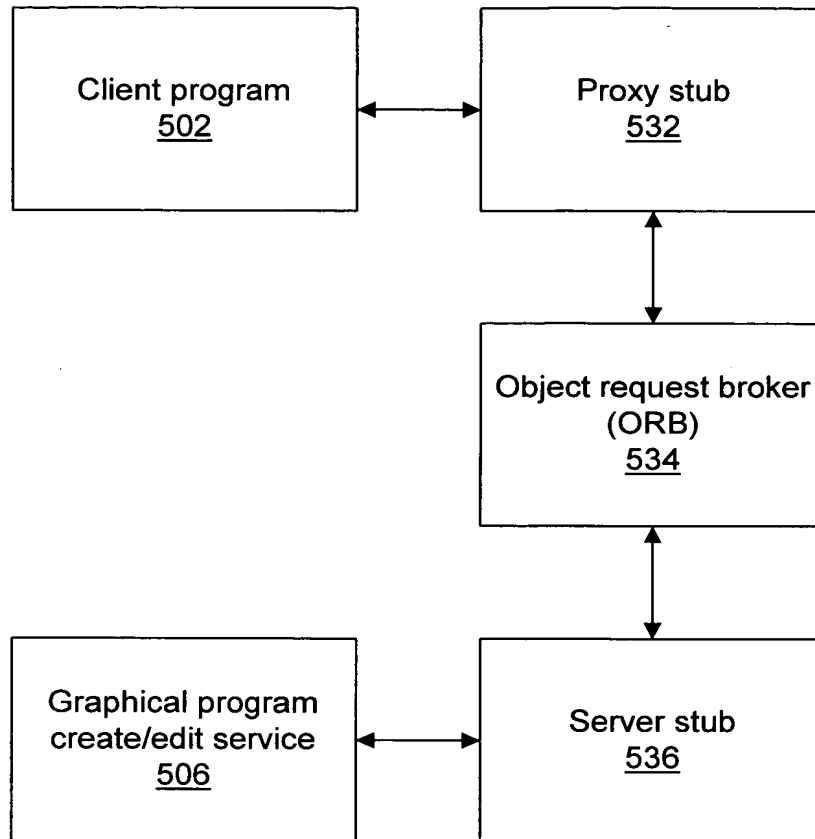


FIG. 26

Open Application Reference Node

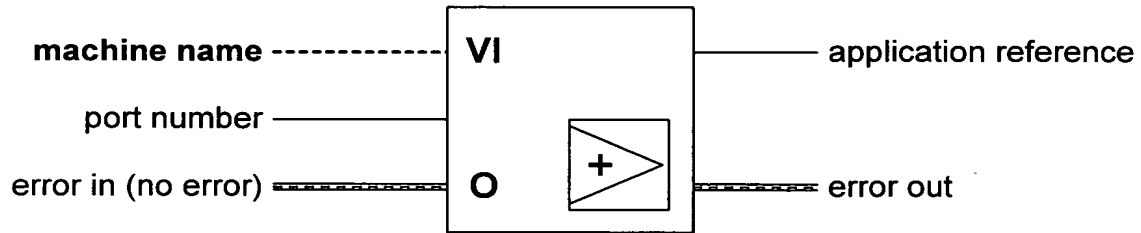


FIG. 27

Open VI Reference Node

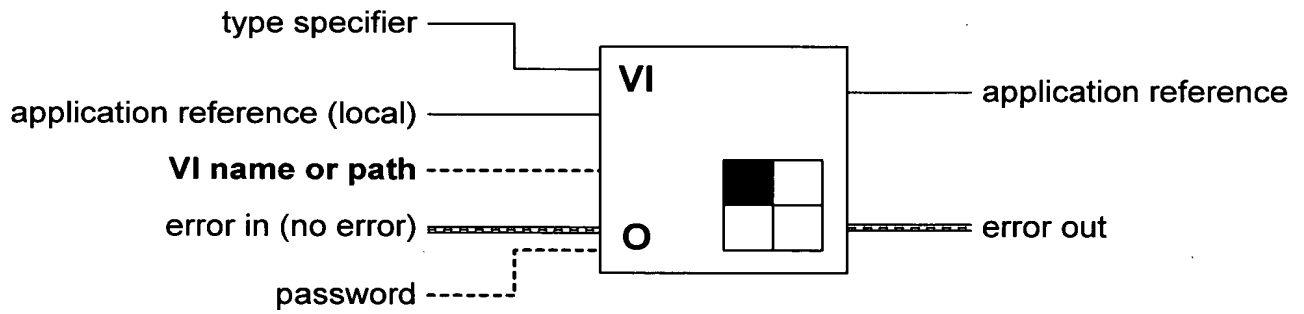


FIG. 28

New VI Reference Node

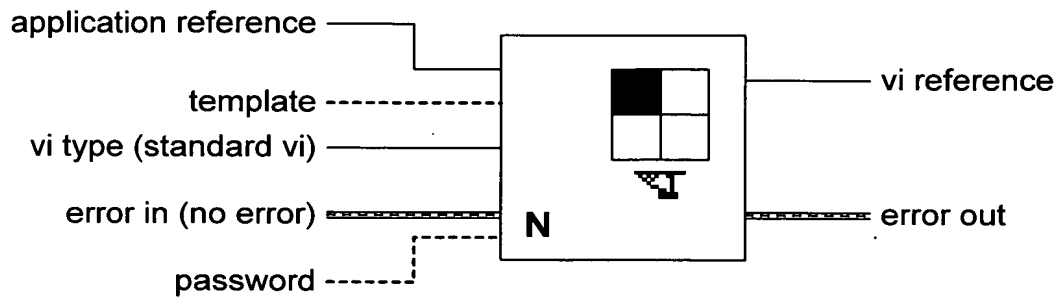


FIG. 29

Open VI Object Reference Node

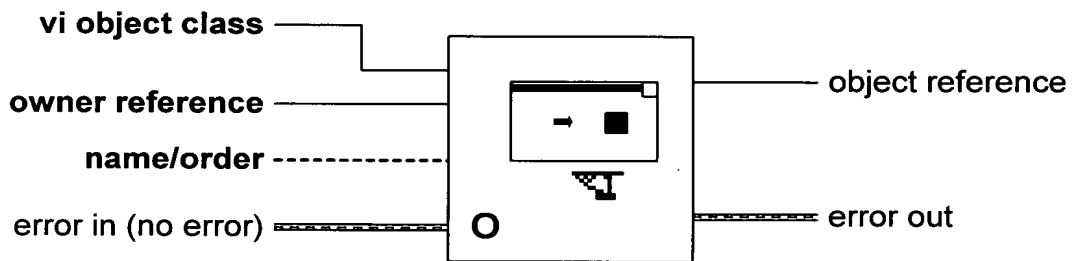


FIG. 30

New VI Object Reference Node

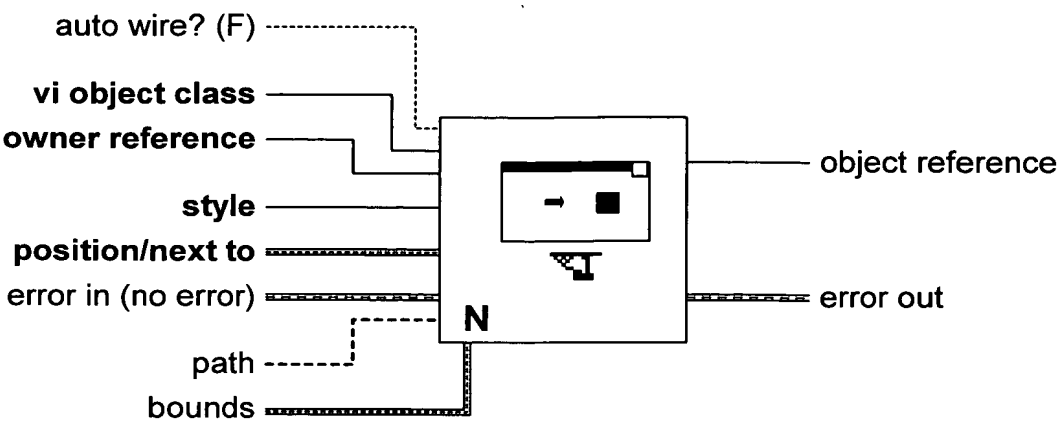


FIG. 31

Upcast Reference Node

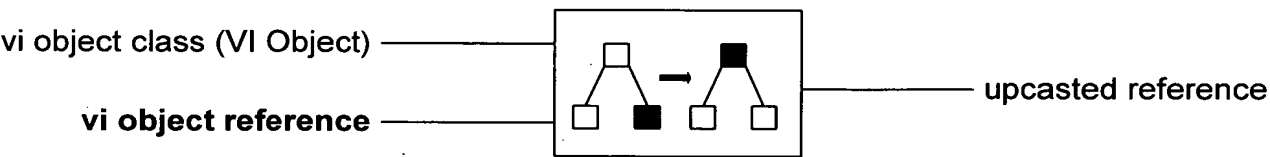


FIG. 32

Downcast Reference Node

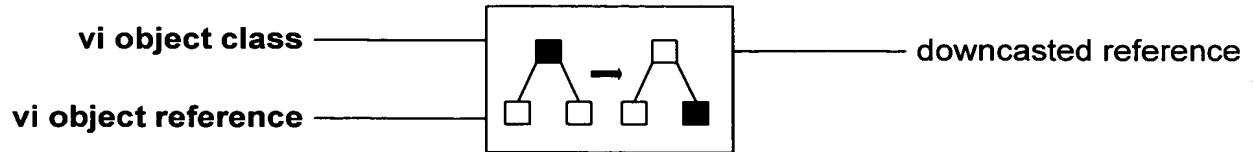


FIG. 33

Close Application or VI Reference Node

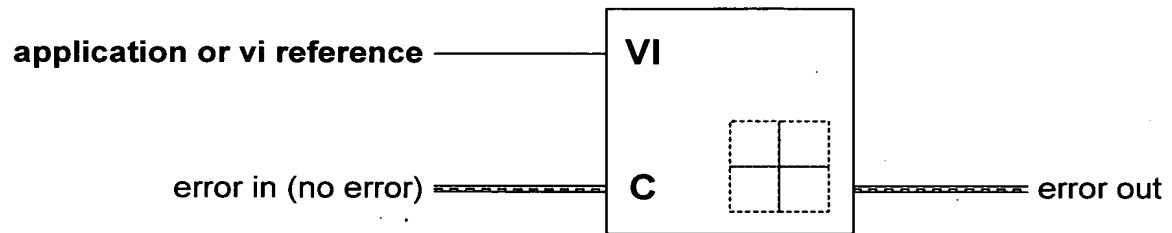


FIG. 34

Call By Reference Node

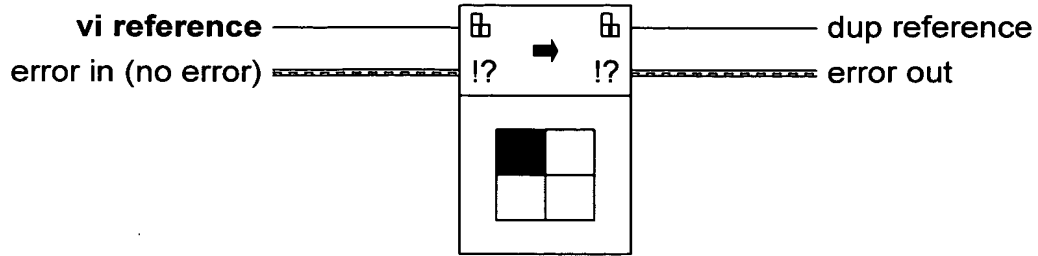


FIG. 35

Property Node

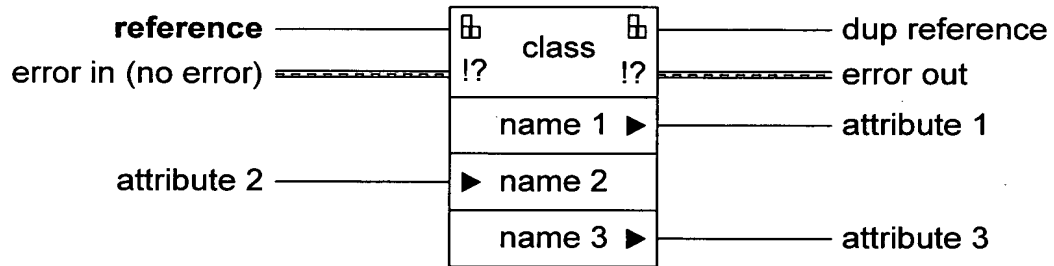


FIG. 36

Invoke Node

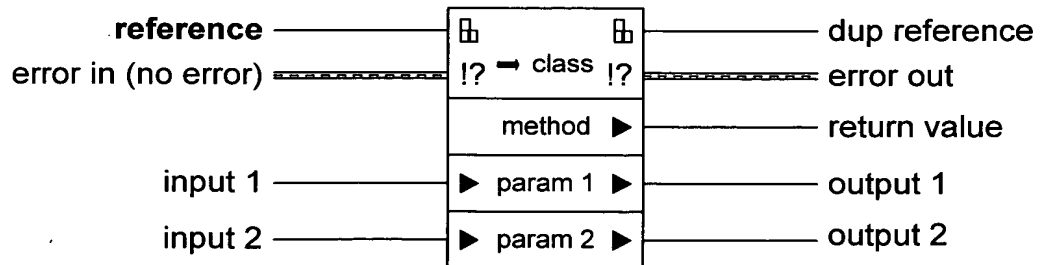


FIG. 37

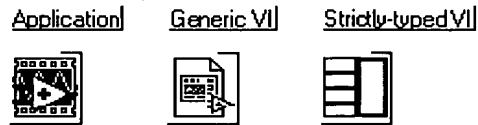


FIG. 38

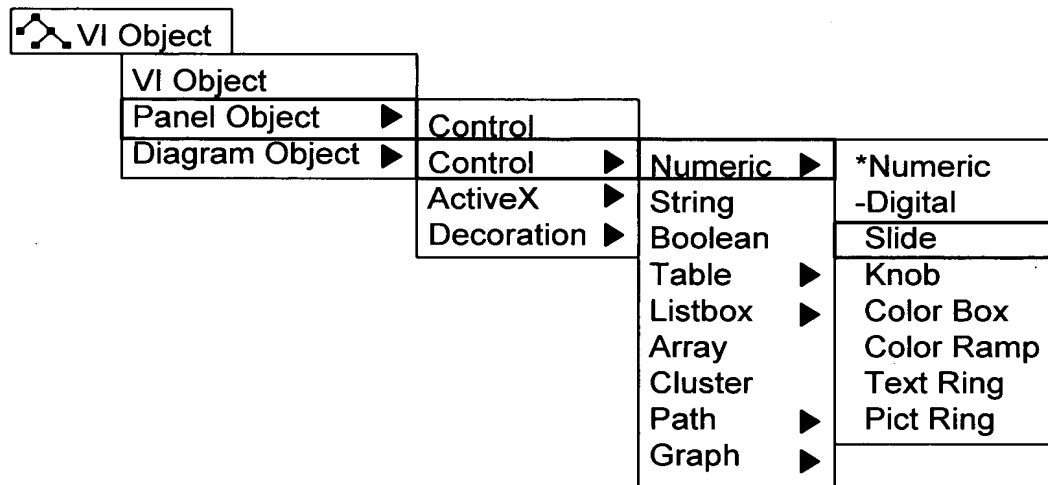


FIG. 39

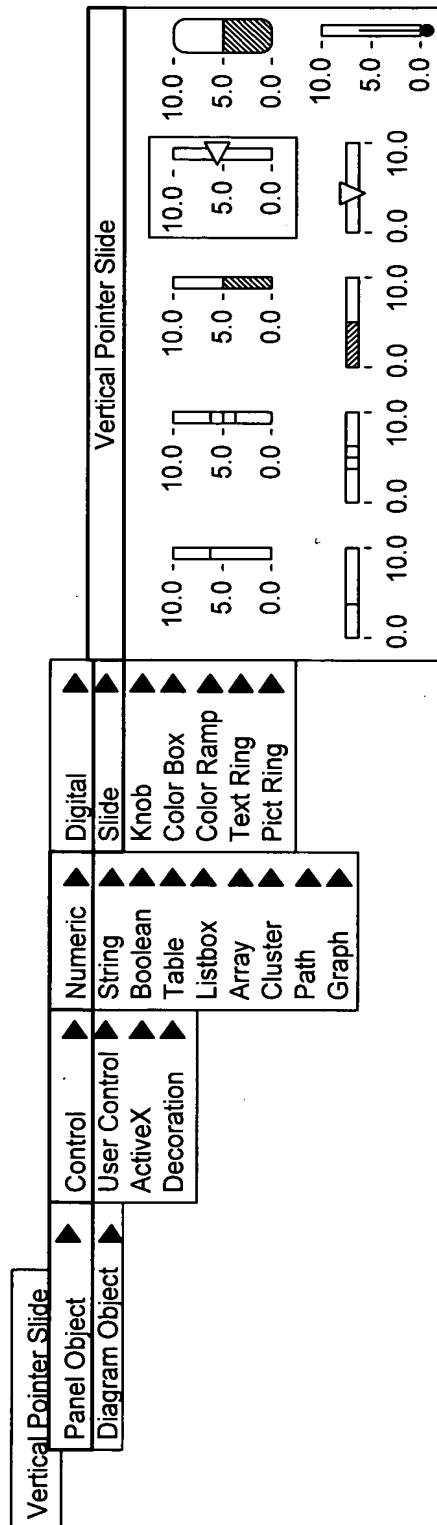


FIG. 40

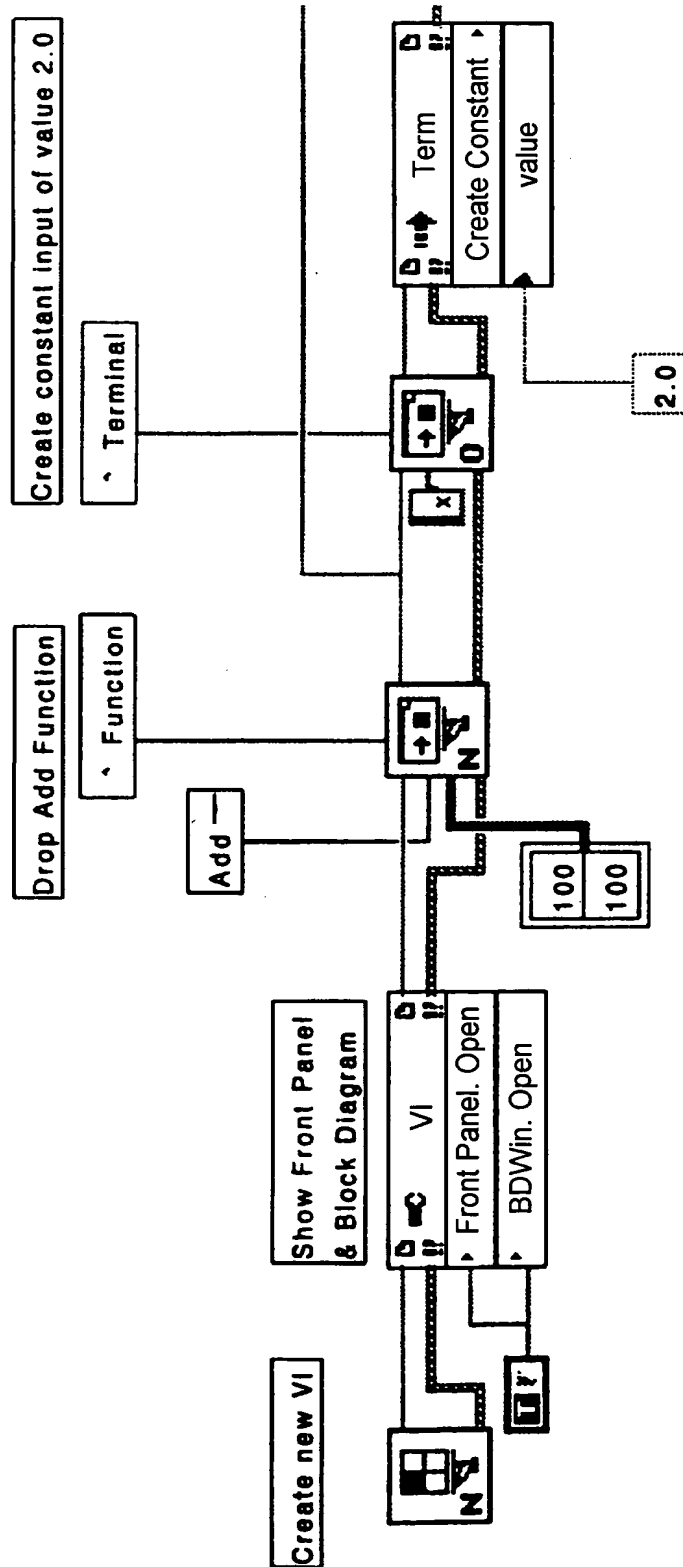


FIG. 41

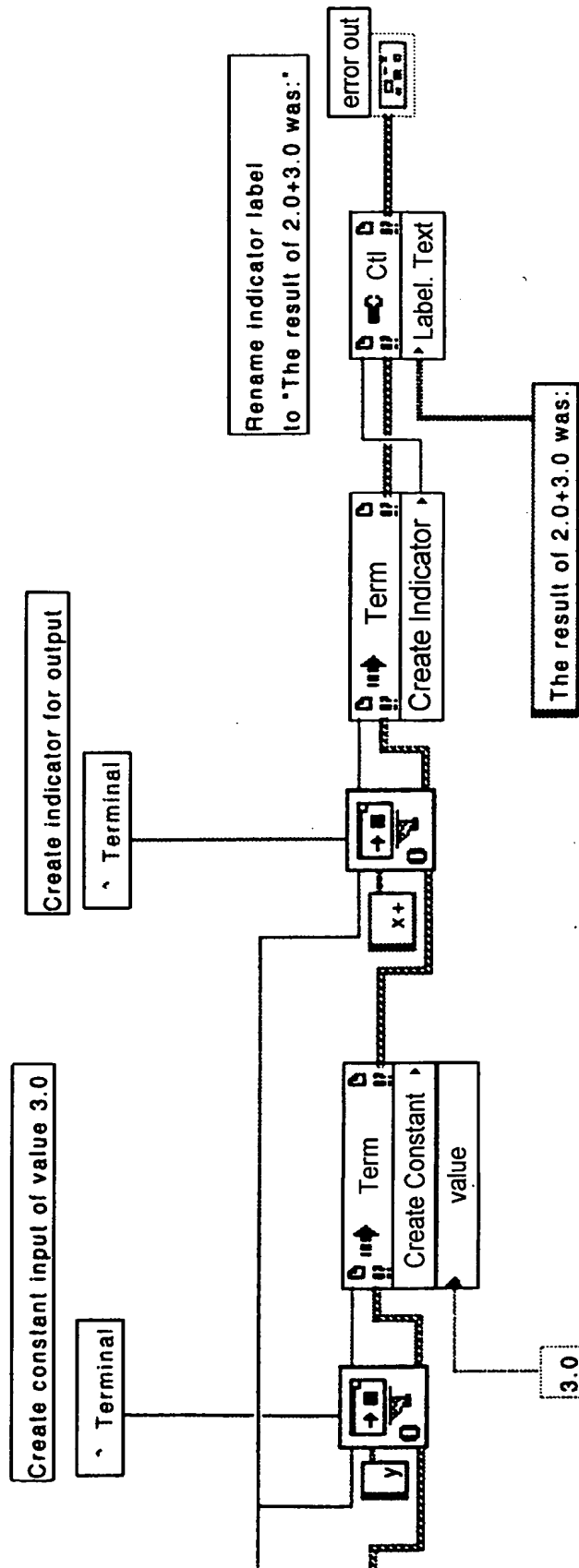


FIG. 41
(Continued)



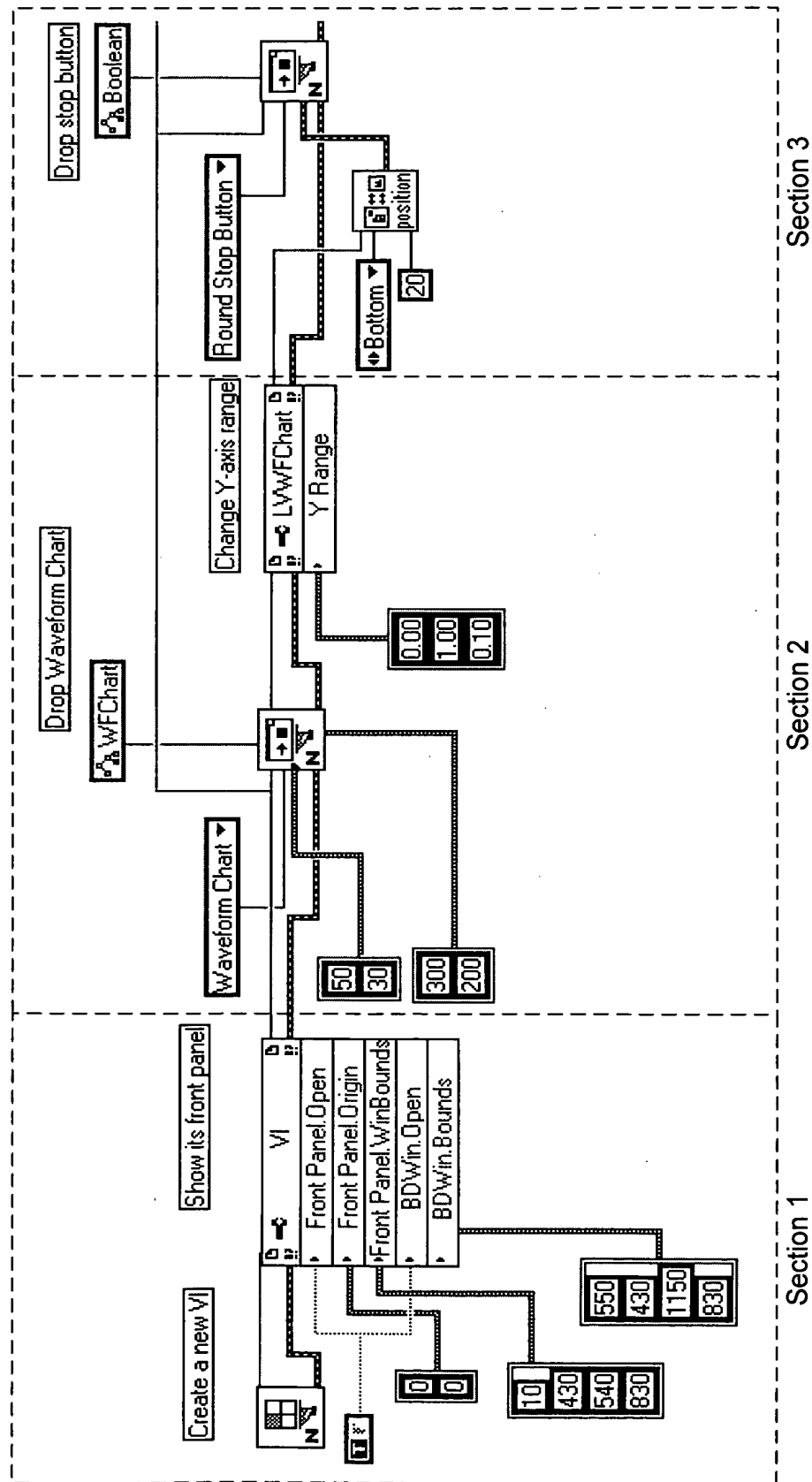


FIG. 44A

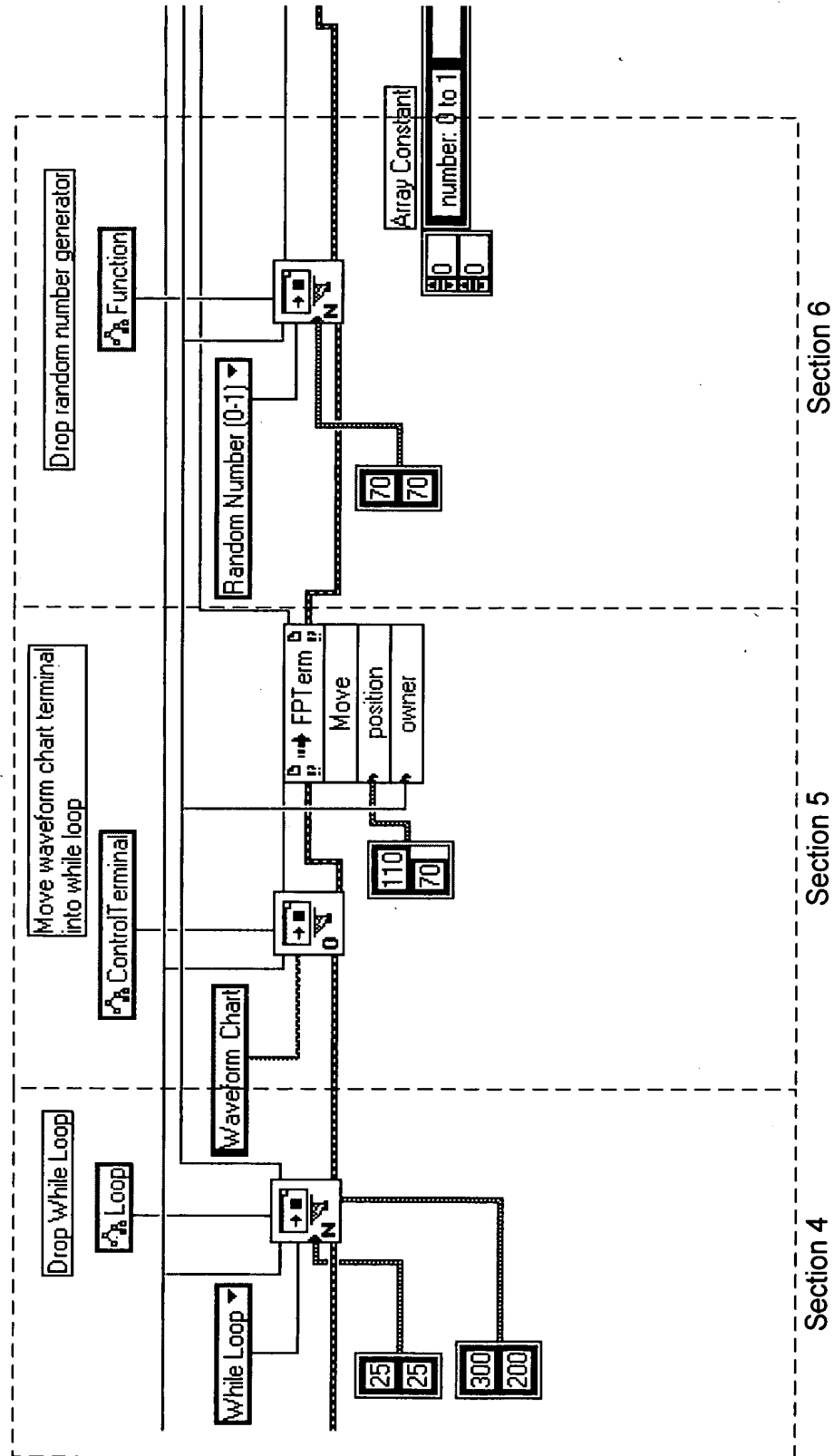


FIG. 44A
(Continued)

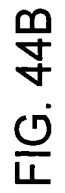


FIG. 44B

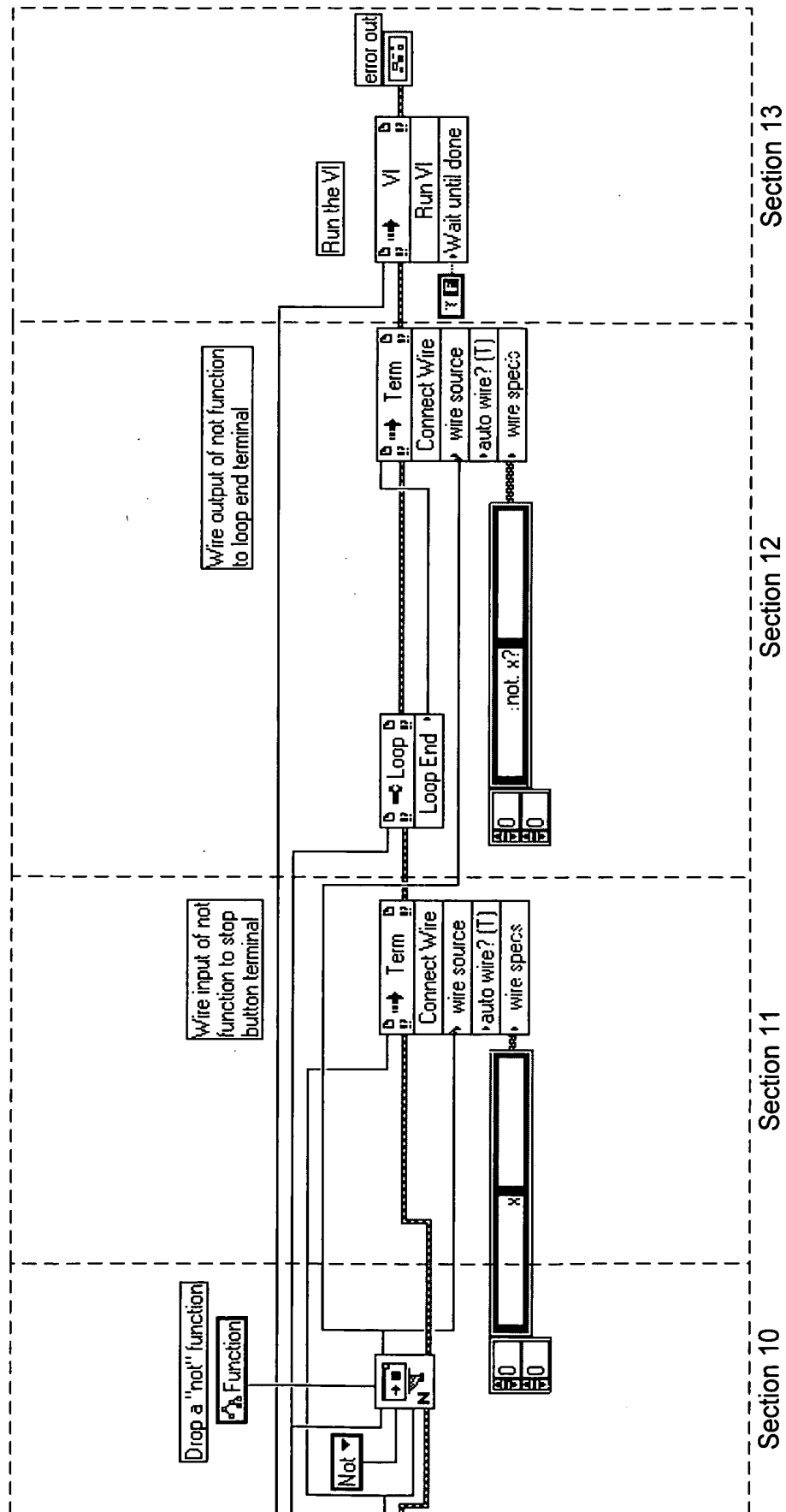
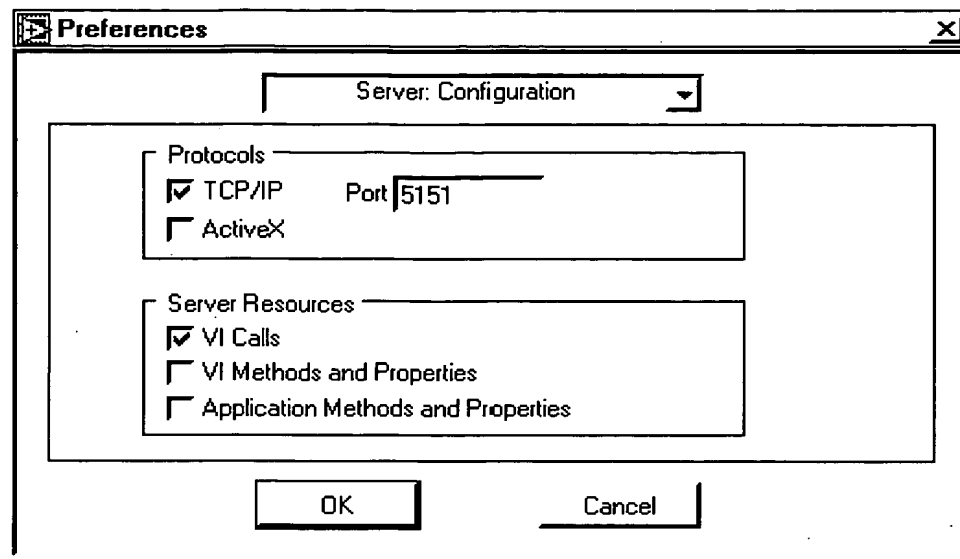


FIG. 44B
(Continued)

Server Configuration



The 'Server Configuration' dialog box is titled 'Preferences' and features a dropdown menu set to 'Server: Configuration'. It contains two main sections: 'Protocols' and 'Server Resources'. In the 'Protocols' section, 'TCP/IP' is checked and 'ActiveX' is unchecked; the 'Port' is set to '5151'. In the 'Server Resources' section, 'VI Calls' is checked, while 'VI Methods and Properties' and 'Application Methods and Properties' are unchecked. 'OK' and 'Cancel' buttons are at the bottom.

Server: Configuration

Protocols

☒ TCP/IP Port 5151

☐ ActiveX

Server Resources

☒ VI Calls

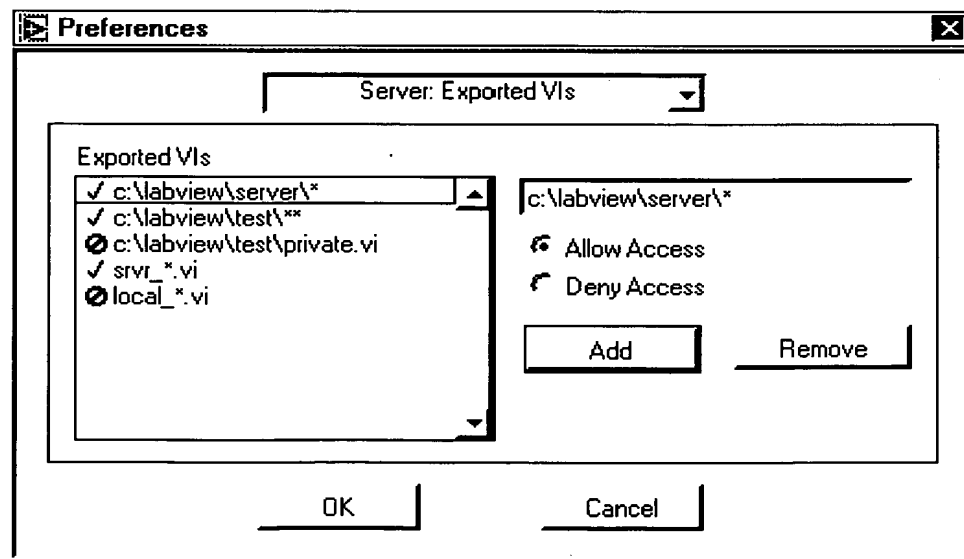
☐ VI Methods and Properties

☐ Application Methods and Properties

OK Cancel

FIG. 45

Exported VIs Configuration



The 'Exported VIs Configuration' dialog box is titled 'Preferences' and features a dropdown menu set to 'Server: Exported VIs'. It contains an 'Exported VIs' list with four entries: 'c:\labview\server*' (checked), 'c:\labview\test*' (checked), 'c:\labview\test\private.vi' (unchecked), and 'svr_*.vi' (checked). To the right, 'c:\labview\server*' is entered in a text field, with 'Allow Access' (radio button) selected over 'Deny Access'. 'Add' and 'Remove' buttons are below the text field. 'OK' and 'Cancel' buttons are at the bottom.

Server: Exported VIs

Exported VIs

- ☒ c:\labview\server*
- ☒ c:\labview\test*
- ☐ c:\labview\test\private.vi
- ☒ svr_*.vi
- ☐ local_*.vi

c:\labview\server*

☒ Allow Access

☐ Deny Access

Add Remove

OK Cancel

FIG. 46

TCP/IP Access Configuration

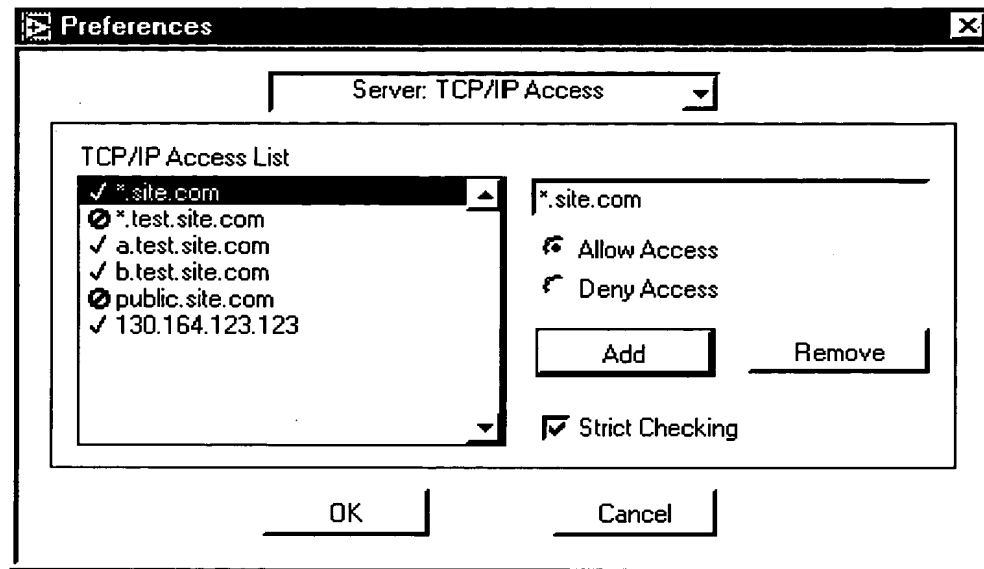


FIG. 47

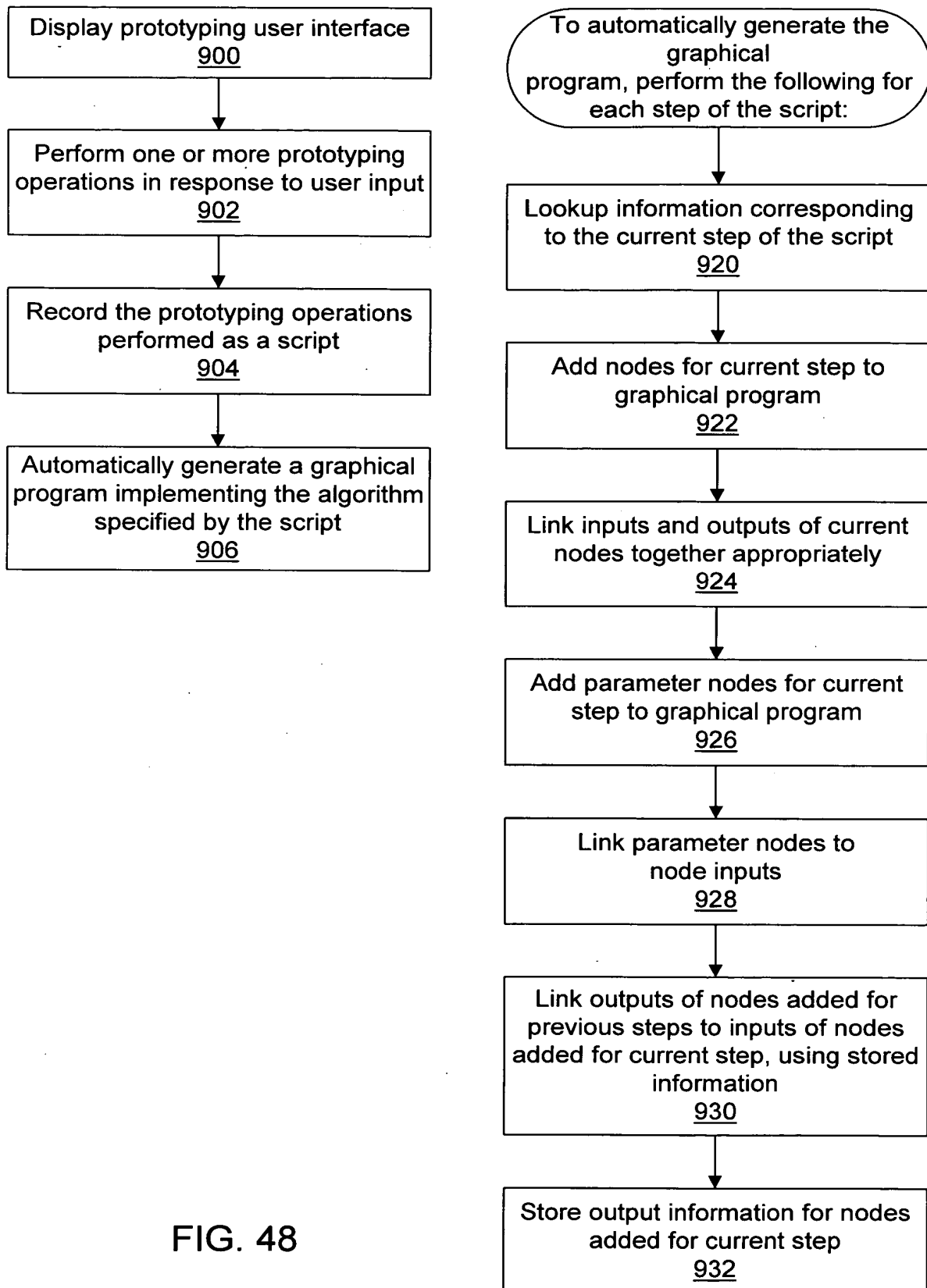


FIG. 48